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DATE MAILED: 12/05/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/075,591	02/15/2002	Hajime Akimoto	500.41141X00	9409	
20457	7590 12/05/2003		EXAM	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			NGUYEN,	NGUYEN, KEVIN M	
			ART UNIT	PAPER NUMBER	
			2674	2674	
			DATE MAIL ED: 12/05/2001	, 4	

Please find below and/or attached an Office communication concerning this application or proceeding.

. 1	Application No.	Applicant(s)				
	10/075,591	AKIMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin M. Nguyen	2674				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
1)⊠ Responsive to communication(s) filed on <u>15 February 2002</u> .						
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-21 is/are allowed. 6) Claim(s) 22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

Page 2

Application/Control Number: 10/075,591

Art Unit: 2674

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: page 15, line 7, should be read --TFT1-- due to typo. Appropriate correction is required.

Drawings

- 2. Figures 16-18 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to because

At figure 2, Loled should be read –loled-- due to typo

At figure 4, Loled should be read --loled-- due to typo

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Information Disclosure Statement

4. The information disclosure statement filed 2/15/2002 which has been placed in the application file, the information referred to therein has been considered as to the merits.

Claim Objections

Application/Control Number: 10/075,591 Page 3

Art Unit: 2674

5. Claim 13 is objected to because of the following informalities: claim 13, lines 1-2 should be read --digital to analog converter--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claim 22 is rejected under 35 U.S.C. 102(e) as being anticipated by Ting (US 6,486,606).
- 8. As to claim 22, Ting teaches an image display device comprising at least one pixel including a memory means (a capacitor "C"), a pixel turn-on period decision means "a transistor "T1"), a pixel drive means (a transistor "T2") for repeating an ON operation of the image output a plurality of times in one frame "T" (see figures 2 and 3, column 3, lines 21-50).

Allowable Subject Matter

- 9. Claims 1-21 allowed.
- 10. The following is a statement of reasons for the indication of allowable subject matter:

Ting does not teach an image display device comprising a second switch means provided between the input terminal and an output terminal of the input voltage

Art Unit: 2674

inversion/output means; a pixel drive voltage generation means for generating a pixel drive voltage, the pixel drive voltage being swept within a predetermined voltage ranges including the display signal voltage.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Stewart et al (US 5,952,789) teaches a pixel structure for use in display using organic light emitting diode (figure 2). Troutman (US 6,157,356) a pixel structure for use in display using organic light emitting diode (figure 1). Dodabalapur et al (US 6,384,804) a pixel structure for use in display using organic light emitting diode (figure 4).
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-THU from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Application/Control Number: 10/075,591

Art Unit: 2674

Page 5

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

> Kevin M. Nguyen Patent Examiner Art Unit 2674

KN

November 25, 2003